

SEQUENCE LISTING

<110> Zauderer, Maurice
Evans, Elizabeth E.
Borrello, Melinda A.

<120> Gene Differentially Expressed in Breast Cancer and
Encoded Polypeptides

<130> 1821.0040001

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<150> 60/194,463

<151> 2000-04-04

<160> 84

<170> PatentIn Ver. 2.1

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<213> Homo sapiens

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      35      40      45
Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr Gly Ala
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Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu Glu Asn
      65      70      75
Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg Arg Ala
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Val Ile Leu
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<212> DNA
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<213> Homo sapiens

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<212> DNA
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gagcagatgc cgggcacatga gatcgagtgc cgctcgggg gcacaggtgc tttgagatag 180
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<210> 8
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<210> 9
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 <212> DNA
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agataaatgg acagctgggt ttctccaagg tggagaatgg gggctttccc tatgagaagg 240
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gccgtctccc ctgcgtcatc ctgtgactgc acaggactct ggggttctgc tctgtttctg 360
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<210> 10
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 <212> DNA
 <213> Homo sapiens

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gctctgtttc ggggtccaaa ccttggtctc cctttgggtc tgctggggag ctccccctgc 360
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<210> 13
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<212> DNA
<213> Homo sapiens

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<210> 14
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<212> DNA
<213> Homo sapiens

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608

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<213> Homo sapiens

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<210> 16
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<212> DNA

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<213> Homo sapiens

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<210> 17

<211> 447

<212> DNA

<213> Homo sapiens

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<210> 18

<211> 326

<212> DNA

<213> Homo sapiens

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<210> 19

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<212> DNA

<213> Homo sapiens

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<211> 488

<212> DNA
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<213> Homo sapiens

<400> 21
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<210> 22
<211> 429
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<213> Homo sapiens

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<212> DNA
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<213> Homo sapiens

<400> 25
ccgaggcaga cgtccgtagc gcccctccc gaggaggctg agccggggcag tggggctccg 60
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notgtgaagc agcagtatcc gggcatcgag atcagagctgc gcctcggggg caccaggtgac 180
tttgagatag agataaatgg acagctgtgtg ttctccaaagc tggagaaatng gggctttccc 240
tatgagaaag atctcatgta ggccatccga agagccagta atggagaaac cctagaaaaa 300
atcaccaaca gccgtcctnc ctg 323

<210> 26
<211> 389
<212> DNA
<213> Homo sapiens

<400> 26
gccngggagca gacgtccgta gcccccctc cagaggaggt cgagccgggc agtcngggtc 60
cgcatcgttg tggagtactg tgaacctctg ggccttcgag cgacctacct ggagctggcc 120
agtgcgtgtga aggagcagta tccggggcatc gagatcgagt cgcgcctcgg gggcacaggt 180
gcctttgaga tagagataaa tggacagctg gtgttctcca agctggagaa tgggggcttt 240
ccctatgaga aagatctcat tgaggccatc cgaagagcca gtaattggaga aacctagaa 300
aagatcacca acagccgtcc tccctcgctt catcctgtgt actgcacagg acctctgggt 360
tccctngttct gttcttgggg ttccaaact 389

<210> 27
<211> 460
<212> DNA
<213> Homo sapiens

<400> 27
agntcgagcc gggcagtggt gtcgcgcatg tgggtgagta ctgtgaaacc tgcggcttgc 60
aggcgacctc cctggagctg gccagtgctg tgaaggagca gtatccgggc atcgagatcg 120
agtcgcgctc cgggggcaca ggtgcttttg agatagagat aaatggagac ctggtgttct 180
ccaaagctgga gaattgggggc tttccctatg aaaaagatct cattgagccc atccgaagag 240
ccagtaaatg agaaacctca gaaaagatca ccaacagccg tccctccctg gtcacatcgt 300
gactgcacag gactctgggg tccgtcttct ggttctnngg gtccaaaact tgggtcttcc 360
ttttgggcct gcttgggact ttccctctgc tctttttccc caatttagct cctctagnc 420
aaaagaanct tgggcttcan atttgnocct tgggaaaaa 460

<210> 28
<211> 436
<212> DNA

<213> Homo sapiens

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<400> 28
aagaaagtga accctgcggc ttcgaggcga cctacctgga gctggccagt gctgtgaagg 60
agcagtatcc gggcatcgag atcgagtgcg gctcgggggg cacaggtgct ttgagataga 120
gataaatgga cagctgggtgt tctccaagct ggagaaatgg ggctttccct atgagaaaaga 180
tctcattgag gccatccgaa gagccagtaa tggagaaaac ctagaaaaaaga tcaccaacag 240
ccgtcctccc tgcgtcatcc tgtgactgca caggactnac tctgggttcc tgcctctgttc 300
tgggggtccaa accttgggtc tcacttttgt cctgctggga agctccccct gccctcttttc 360
ccctacttaa gctccntaag caaaaagagaa ccttgggcct ccaanttttg ccccttnggt 420
acaaaaagaa aggnat

```

<210> 29

<211> 391

<212> DNA

<213> Homo sapiens

```

<400> 29
cgccacnccg ggattgaggt gnangccggg gcagacgtcc gtagcgcccc ctcccaggaga 60
gttcgagccg ggcagtgggg tccgcattct ggtggagtag tgtgaacctt gccgcttcga 120
ggcgacctac ctggagctgg ccagtgcgtg gaaggagcag tatccgggca tcgagatcga 180
gtcgcgccct gggggcacag gtgcttttna gatagagata aatggacagc tgggtgtctc 240
caagctggag aatnggggct ttcctatga gaaagatctt cattgaggcc atccgaagag 300
ccagtaatng agaaacccta gaaaagatca ccaacagccg tccttccttg cgtncatcct 360
gttnacttnc acaaggatcc ttgggtttcc t

```

<210> 30

<211> 386

<212> DNA

<213> Homo sapiens

```

<400> 30
gcgggggagcg gngcagacg tccgtagcgc cccctcccca ggaggtcgag ccnngcagtg 60
gggtccgcat cgtggtggag tactgtgaac cctgcggttt cgaggcgacc tacctggagc 120
tggccagtgc tgtgaaggag cagtatccgg gcacgagat cgagtcgcgc ctccgggggca 180
cagggtgcttt gagatagaga taaatggaca cgtggtgttc tccaagctgg agaatggggg 240
ctttcccatl gaaaaagatc ttcataggag ccacccgaag agccagtaat gggagaaacc 300
cttagaaaaa attcaccacac agccgttctct ccttgccgtt cattccttgt tgaattgcac 360
agggtatttt gggtttctntg ttttgt

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<210> 31

<211> 348

<212> DNA

<213> Homo sapiens

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<400> 31
gcgcattcgt gtggagtact gtgaacctgt cggcttcgag gcgacctacc tggagctggc 60
cagtgctgtg aaggagcagt atccgggcat cgagatcgag tcgcgcctcg ggggcacagg 120
tgctttgaga tagagataaa tggacagctg gtgttctcca agctggagaa tgggggcttt 180
ccctatgaga aagatctcat tgaggccatc cgaagagcca gtaatnaga aacctagaa 240
aagatcacca acagccgtcc tcccttgctg catcctgtga ctgcacaggg attctggggt 300
ccttgctctg ttctnngggt tcaaaccttt gggttncott ttggtcct

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<210> 32

<211> 344

<212> DNA

<213> Homo sapiens

```
<400> 32
cccgagcgga gcgccgcga tgagcgnga gcccggcag acgtccgtag cggccnntcc 60
cgaggaggtc gagccgggca gtggggtccg catcgtggtg gagtactgtg aacctgcgg 120
cttcgagcgc acctacctcg agctggccag tgcgtgnaag gagcagatc cgggcctcga 180
gatcgagtcg ccctcggggg gcacaggtgc ctttnagata gagataaaat gacagctgtgt 240
gtttctccaa ctggagaatg gggggcttct cctatgagaa agatctcatt gaggccatcc 300
gaagngccag taaatggaga aaccctagaa aagatcacca acag 344
```

```
<210> 33
<211> 532
<212> DNA
<213> Homo sapiens
```

```
<400> 33
tttagtgttt gtagcgccac tttaactgcca atagctgaca ttgcctctgg ttaggggaga 60
ataataaaaa tctgtggcat cagacaggta ttaccgaggg gaagagtggga ctgggctttc 120
gtgggcaactt accctgggaa gggggtatga ggtggctgga gaagtgttca tggagagtgt 180
ctctctctctg cccccaaggc caccgaaatct tctattcctt ctttgtaccc aaaggcgaaa 240
gtggaggccca gggctctctt gctaaggagc taagttaggg aaagaggcag ggggagctcc 300
cagcaggacc aaaggagac caaggttttg acccagaac agagcaggaa cccagagtcc 360
tgtcgagtca caggatgacg cagggaggac ggcgtgtgtg gatcttttct agggtttctc 420
cattactggc tottoggatg gctcaatga gatctttctc atagggaag ccccatctct 480
ccagcttgga gaacaccagc tgtccattta tctctatctc aaaggcacct gt 532
```

```
<210> 34
<211> 309
<212> DNA
<213> Homo sapiens
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```
<400> 34
gaggagcgcn ccgcgatgag cggcgagcgc gggcagagct ccgtagcgcc cctcccgag 60
gaggttcgagc cgggcagtggt ggtccgcacg gtggtggagt actgtgaacc ctggcggttc 120
gaggcgacctt acctggagct gggcatgctg tgaaaggagca gtatccgggc atcgagatgc 180
agtcgcgcctt cggggggcaca ggtgcttttg agatagagat aaatngacan ctggtgttct 240
tcaagctgga gaatgggggc ttccctatag agaaagatct cattgagngc atncgaagag 300
ccataatgg 309
```

```
<210> 35
<211> 571
<212> DNA
<213> Homo sapiens
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<400> 35
agtgtttgta ggcgcacttt actgccaata gctgacattg ccttggtgta ggggagaata 60
aataaaaatct gtggcatcag acaggtatta ccgaggcgaa gagtggagctg ggtcttcgtg 120
ggcacttaacc ctgggaaggg ggtatgaggt tggctggaga agtgttcag gagagtgtct 180
ctctctctgct cccaaggcca cgaatctctt tattctctct ttgtaccocaa agggcaaat 240
ggaggccaag gtctctttgc taaggagcta agtaggggaa agagcgagg ggagctccca 300
cgaggaccaaa agggagacca aggttttgac ccagaaacag agcagggaacc cagagtctgt 360
tgcagtcaca ggtatgacga gggaggagcg ctnttgggta tcttttctag ggtttctcca 420
ttactggctc ttccgatggc ctcaatgaga tctttctcag gggaaagccc cattctccag 480
cntggagaac accagctgtc canttatctc tctctcaaan gcacctgtgc ccgaagcgcc 540
gactcgattt tcatgcccc gatactgtct c 571
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<210> 36
<211> 263
<212> DNA
<213> Homo sapiens
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<400> 36
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 cgtgggtggag tactgtgaac cctgcggctt cgaggcgacc tacctggagc tggccagtgcc 120
 tgtgaaggag cagtatccgg gcatcgagat cgagtcgcgc ctccgggggca cagggtcttt 180
 gagatagaga taaatggaca gctgtgttc tccaagctgg agaattggggg ctttcccttg 240
 agaaagatct catttaggcc cat 263

<210> 37
 <211> 528
 <212> DNA
 <213> Homo sapiens

<400> 37
 ntttttagtg tttgtagcgc cactttactg ccaatagctg acattgcctt ggggttagggg 60
 agaataaata aaatctgtgg catcagacag gtattaccga ggcgaaagagt ggactgggct 120
 ttcgtgggcca cttaccctgg gaagggggta tgaggtggct ggagaagtgt tcatggagag 180
 tgtctctctc ctgcgcccaa ggccacggaa tcttctattc cttcttttga cccaaagggc 240
 aaagtggagg ccagggtctc tttgtctaat agctaagtag gggaaaggag cagggggganc 300
 tcccagcagg accaaaggga gaccaaggtt tggacccag aacagagcag gaaccagag 360
 tctctgtgca gtccacagat gacgcaangga ggacggctgt tgggtgatctt tcttaggggt 420
 tctccattac tggctcttcg gatggcctca atgagatctt tctcataggg aaagccccc 480
 ttctccagct tggagaacac cagctgtcca attatctccn tctcaaaa 528

<210> 38
 <211> 290
 <212> DNA
 <213> Homo sapiens

<400> 38
 cccgagcgga nccggcgcga tgagcgagng agccggggca gacgtccgta ggcgccctc 60
 ccgaggcgga ccagcccgga agtggggctc gcactgtgtt ggagtactgt aaacctcgcc 120
 gcttcgagga gacctaactg gagctggcca gtgctgttaa ggagcagtat ccgggcatcg 180
 agatcgantc gcgcctcgga ggccacagtg cctttaagat agagataaat ggacagctgg 240
 tgtctcccaa gctngagaat gggggctttn cctatgagaa agatctcatt 290

<210> 39
 <211> 320
 <212> DNA
 <213> Homo sapiens

<400> 39
 ggtggagtag tgtgaacctc gcggcttcga ggcgacctac ctggagctgg ccagtgtgt 60
 gaaggagcag tatccgggca tcgagatcga gtcgcgcctc nggggacacg gtnctttgag 120
 atagagataa atggacagct ggtgttctcc aagctggaga atggggcttt tncctatgag 180
 aaagatctca ttgagcccat ccgaagagcc agtaattggag aaacctagaa aagttcacca 240
 acagcgcgtc ttctnngtc attctattga ctgcacagga ttctnngttt cntgctntgt 300
 ttttggntcc caaacctttg 320

<210> 40
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 40
 ggagcagtag ccggggcatcg agatcgagtc gcgcctcggg ggccacagtg cttttagata 60
 gagataaatg gacagctggt gttctccaag ctggagaaat ggggctttcc ctatgagaaa 120
 gatctcattg aggcctatcg aagagcagct aatnngagaa accctagaaa agataccaaa 180
 cagccgtctc acctgcgtca tctgtgact gcacaggact ctgggttctc gctctgttct 240

gggggtccaa accttgggnt tccttnggt cctnttggg angttccct tgetttttt 300
ccctaattan gttcttagga a 321

<210> 41
<211> 456
<212> DNA
<213> Homo sapiens

<400> 41
gcggggagcg gggcagacgt ccgtagcgcc cctccccgag gaggtcgagc tgctgcagt 60
gggtccgcac cgtggtggag tactgtgaac cctgcggctt cgaggcgacc tacctggagc 120
tggtccagtc tgtgaaggag cagtatccgg gcactcgagat cgagtcgcgc ctccgggggac 180
agggtgcttg agatagagat aaatggacag ctggtgttct ccaagctgga gaatgggggc 240
ttccctatga gaaagatgtg agtatttaca gcgttgggag gacctcttgg tcaccttacc 300
ccaacagtc atcatcctgt cattccactc ctctagctca ttgagggcat cogaagagcc 360
agtaatggag aaacccctaga aaagatcacc aacagccgct ctcctcgct catcctgtga 420
ctgcacagac tctgggttct gctctgttct ggggtc 456

<210> 42
<211> 458
<212> DNA
<213> Homo sapiens

<400> 42
ccaatagctg acattgccct ggggttagggg agaataaata aaatctgttg catcagacag 60
gntttaccna ggcgaagagt ggaactggct ttctgtggga cttaccctgg gaagggggta 120
tgaggtggct ggagaaagtgt tcatggagag tgtctctctc ctgcccccaa gcccacggaa 180
tctctattc tctctttgta cccaaagggc aaagtggagg ccagggtctc ttgtctaagg 240
agctaaagtag gggaaagagg caggggggag tcccagcagg accaaaggga gaccaaggtt 300
tggaaccocag aacagngcag gaaccocagag tccgtgtcag tcacagngtg acgcaggagg 360
gacggctntt tggtagtctt ttctagggtt tctcttact ggctcttcgg atggccctcaa 420
tgagnttttc tcataggggaa agcccccttt tncagttt 458

<210> 43
<211> 452
<212> DNA
<213> Homo sapiens

<400> 43
ttgtgtttgt agcgcactt tactgccaat agctgacatt gccctggggt aggggagaat 60
aaataaaatc tgtggcatca gacaggtatt accgaggcga agagtggact gggcttttgt 120
gggcacttac cctgggaagg ggttatgagg ttgctggaga agtgttcag gagagtgtct 180
ctctcctgcc cccaaggcca cggaaatctc tattctctct ttgtaccocaa agggcaaggt 240
ggaggccaggt gtctctttgc taaggagcta agtaggggaa agaggcagg ggagctccca 300
cgaggaccaa agggagacca aggtttggac ccagaaacag aacaggaccc cagagtctct 360
tgacgtcaca ggaatgacga gggaggacgg ctgttggtga tcttttctag ggtttctcca 420
ttactggtctc ttccgatgac ctcaatgagc ta 452

<210> 44
<211> 444
<212> DNA
<213> Homo sapiens

<400> 44
agtgtttgta ggcgcacttt actgccaata gctgacatt cctctgggta ggggagaata 60
aataaaatct gtggcatcag acaggtatta ccgaggcgaa gagtggactg ggtcttcgtg 120
ggcacttacc ctgggaagggt ggtatgaggt ggttgagaa gtgttcactg agagtgtctc 180
tctctgcgcc ccaaggccac ggaattcttt attccttctt tgtaaccocaa gggcaaggtg 240

gaggccagg	tctctttgct	aaggagctaa	gtaggggaaa	gaggcaggg	gagctcccag	300
caggaccaaa	gggagaccaa	ggtttggacc	ccagaaacaga	gcaggaaacc	agagtctctgt	360
gcagtcacag	gatgacgcag	ggaggacggc	gtttggtgat	cttttcttagg	gttttctccat	420
tactggctct	tcggatggcc	tcaa				444

<210> 45
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 45	ggagccggcc	gcnatgagcg	gngagccgg	ggcagacgtc	cgtagcgccc	cctcccgagg	60
	aggtcgagcc	gggcagtggt	gtccgcctcg	tggtggagta	ctgtaaaccc	tcgggctctg	120
	agggcagcta	cctggagctg	gccagtnctg	tgaaggagca	gtatccgggc	atcgagatcg	180
	antcgcgct	cgggggcaca	ggtgccttta	agatagagat	aaatggacag	ct	232

<210> 46
 <211> 456
 <212> DNA
 <213> Homo sapiens

<400> 46	ttttttttta	gtgtttgtag	cgccacttta	ctgccaatag	ctgacattgc	cctggggttag	60
	gggagaataa	ataaaatctg	tggcatcaga	caggtattac	cgaggcgaag	agtggactgg	120
	gctttcgtgg	gcacttacc	tgggaagggg	gtatgaggtg	gctggagaag	tgtttcatgga	180
	gagtggtctc	ctcctgcccc	caaggccacg	gaatcttcta	ttccttcttt	gtacccaaag	240
	ggcaaaatgg	agggcagggt	ctctttgcta	aggagctaa	taggggaaag	agggcagggg	300
	agctccagc	aggaccaaa	ggagaccaag	gtttggacc	cagaacagag	caggaaacca	360
	gagtcctgtg	cagtcacagg	atgacgcagg	gaggacggct	gttggtgatc	ttttctaggg	420
	ttttccatt	actggctctt	cggatggctc	aatgag			456

<210> 47
 <211> 556
 <212> DNA
 <213> Homo sapiens

<400> 47	gtatgcattt	tatgcctcaa	taaaaagttt	agggaaaaaa	acctcttatt	cttgatcaga	60
	atccatggtt	gttctctata	tggaaacagt	agtaaaagttc	tgggagtcct	aagatctaaa	120
	aaaagaaatc	taaccatcca	acaccaccta	aagccatcac	tcagatggag	ggggccatcac	180
	gaagaggatac	ttttggaggt	ggtctgcaaa	gaaaaaaact	ctagaaaaag	acaacaaaaa	240
	cggccaggtg	tggtggtcca	cgctgttaat	ccagcggcgt	tgggagcccg	agggcggcag	300
	atcacagaggt	caagaggtcg	agaccagcct	gaccaacata	gtggaaaacc	tggtctccac	360
	ttaaaaatta	caaaaaatta	actggggcgt	ggttggccgc	gcacctggta	atcccagcta	420
	cttttgggan	ggcttggggg	caggagaagt	cgctttgaac	ctgggaaggt	tggaggttgc	480
	agttgaancc	gaggttcgca	ccactgcatt	tccagccttg	ggggaanagg	gcganactcc	540
	gnttccaaaa	aataat					556

<210> 48
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 48	tttagngttt	gtagcgccac	tttactgcca	atagctgaca	ttgccctggg	ttaggggaga	60
	ataaataaaa	tctgtggcat	cagacaggtg	ttaccgaggg	gaagagtggg	ctgggctttc	120
	gtgggcaact	acctcgggaa	ggggtatgag	gtggctggag	aagtggtcat	ggagagtgtc	180
	tctctctctg	cccgaaggcc	acggaatctt	ctattccttc	tttgtaacca	aaggcaaaagt	240

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ggaggccagg gtctcttttg taaggagcta agtaggggaa aaaggcagg ggagctccca 300
gcaggaccaa agggagacca aggtttggac ccagagaacg agcaggaaac cagagtcctg 360
tgcatgcaca ngatgacgca gggaggacgg ctnttggtga tctttctag ggtttctcca 420
ttacttgctc ttcggatggc ctcaatgaga tctttctcat a 461

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<210> 49
<211> 434
<212> DNA
<213> Homo sapiens

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<400> 49
gtttgttagc ccactttact gccaatagct gacattgccc tgggttaggg gagaataaat 60
aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc ttctgtgggc 120
acttaccctg ggaagggggg atgaggtggc tggagaagtg ttcatggaga gtgtctctct 180
cctgcccaca aggcaccgga atcttctatt ccttctttgt acccaaaagg caaagtggag 240
gccagggtct ctttgctaag gagctaagta ggggaaaagag gcaggggggc ctcccagcag 300
gaccaaaggg agaccaaggt ttggacccca gaacagagca ggaacccaga gtctcttgca 360
gtcacaggat gacgcaggga ggacggctgt tggatgattt ttctagggtt tctccattac 420
tggtctcttg gatg 434

```

```

<210> 50
<211> 434
<212> DNA
<213> Homo sapiens

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```

<400> 50
gtttgttagc ccactttact gccaatagct gacattgccc tgggttaggg gagaataaat 60
aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc ttctgtgggc 120
acttaccctg ggaagggggg atgaggtggc tggagaagtg ttcatggaga gtgtctctct 180
cctgcccaca aggcaccgga atcttctatt ccttctttgt acccaaaagg caaagtggag 240
gccagggtct ctttgctaag gagctaagta ggggaaaagag gcaggggggc ctcccagcag 300
gaccaaaggg agaccaaggt ttggacccca gaacagagca ggaacccaga gtctcttgca 360
gtcacaggat gacgcaggga ggacggctgt tggatgattt ttctagggtt tctccattac 420
tggtctcttg gatg 434

```

```

<210> 51
<211> 459
<212> DNA
<213> Homo sapiens

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<400> 51
tcagacotca ttgaggccat ccgaagagcc aataatggag aaacccctaga aaagatcacc 60
aacagcgcgc ctccctgcgt catcctgtga ctgcacagga ctctgggttc ctgctctggt 120
ctggggtgca aaccttggtc tccttttggt cctgctggga gctccccctg cctctttccc 180
ctacttagct ccttagcaaa gagaccctgg cctccacttt gccctttggt acaaaagagg 240
aatagaagat tccgtggcct tgggggcagg agagagacac tctccatgaa cacttctcca 300
gccacctoat acccccttcc cagggttaagt gccccagaaa gccacgtcca ctcttcgctc 360
cggtaatcac tgtctgatgc cacagatttt atttattctc cctaaccacg ggcaatgtca 420
gctattggca gtaaatggc gctacaaaca ctaaaaaaa 459

```

```

<210> 52
<211> 451
<212> DNA
<213> Homo sapiens

```

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<400> 52
tttttttttt ttagtgtttg tagcgccact ttactgccaa tagctgacat tgccctgggt 60
tagggggaga taaataaaat ctgtggcacc agacaggtat taccgaggcg aagagtggac 120

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tgggcttttc tgggcactta cctcggaag ggggtatgag gtggctggag aagtgttcat 180
ggagagtgtc tctctcctgc cccaaaggcc accgaatctt ctattccttc tttgtacca 240
aaggggcaaa gtggaggcca gggctctctt gctaaggagc taagtagggg aaagaggcag 300
ggggagctcc cagcaggacc aaaggggagc caaggtttgg accccagaac agagcaggaa 360
cccagagtcc tgtgcagtcc caggatgacg caggaggagc ggctgttggg gatcttttct 420
agggtttctc cattaactgac tcttcggatg g

```

```

<210> 53
<211> 447
<212> DNA
<213> Homo sapiens

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```

<400> 53
tttttagtgt ttgtagcgcc actttactgc caatagctga cattgccctg ggttagggga 60
gaataaataa aatctgtggc atcagacagg tattaccgag gcgaagagtg gactgggctt 120
tcgtggcgac ttacccctgg aagggggtat gaggtggctg gagaagtgtt catggagagt 180
gtctctctcc ttgccccaag gccacggaaat ctctatttcc ttctttgtac ccaaaaggca 240
agtnnaggcc aggggtctctt tgctaaggag ctaagtaggg gaaagaggca gggggagctc 300
ccagcaggac caaaggggaga ccaaggtttg gaccccagaa cagagcagga acccagagtc 360
ctgtgcagtc acaggatnac gcaggggagga cggctgttgg tgatcttttc tagggtttct 420
ccattactgg ctcttcggat ggcctca

```

```

<210> 54
<211> 473
<212> DNA
<213> Homo sapiens

```

```

<400> 54
tagtgtttgt agcgccactt tactgccaat agctgacatt gccctggggt aggggagaat 60
aaataaaatc tgtggcaatc gacaggtatt accgaggcga agagtggact gggctttcgt 120
gggcacttac cctgggaagg ggggtatgag ttgctggaga agtgttcatg gagagtgtct 180
cactcctgcc cccaaggcca cggaaatcttc tattcctctt ttgtaccocaa aggcacaaagt 240
gaggccaggg tctcttttgc aaggagctaa gtaggggaaa gaggcagggg cagctccacg 300
caggaccocaa gggagaccaa ggttttggac ccagaaacag agcaggaacc cagagtccctg 360
ttgcagtcac aggatgacgc agggaggagc gctgttgggt atcttttctt agggtttctc 420
cattacttgc tctttcggat ggctccaatg agatcttttc tcatagggga aat 473

```

```

<210> 55
<211> 454
<212> DNA
<213> Homo sapiens

```

```

<400> 55
tagtgtttgt agcgccactt tactgccaat agctgacatt gccctggggt aggggagaat 60
aaataaaatc tgtggcaatc gacaggtatt accgaggcga agagtggact gggctttcgt 120
gggcacttac cctgggaagg ggggtatgag ttgctggaga agtgttcatg gagagtgtct 180
ctctcctgcc cccaaggcca cggaaatcttc tattcctctt ttgtaccocaa agggcaaaagt 240
ggagggcagg gtctcttttgc taaggagcta agtaggggaa agagggcagg ggagctccca 300
caggaccocaa agggagacca aggtttggac ccagaaacag agcaggaacc cagagtccctg 360
tgacgtcaca ggtttgaccg caggaggagc cggctgttgg tgatcctttt ctagggtttc 420
tccattactg gctcttcagg atggnctcaa tgag

```

```

<210> 56
<211> 394
<212> DNA
<213> Homo sapiens

```

```

<400> 56

```

```

tgacattgcc ctgggttagg ggagaataaa taaaaatctgt ggcacacagc aggtattacc 60
gaggcgaaaga gtggactggg ctttctgtgg cacttaccct gggaaggggg tatgaggtgg 120
ctggagaagt ttctcatggag agtgtctctc tcctgcccc aaggccacgg aatcttctat 180
tccttctttt tacccaagg gcaaaagtga ggcacagggtc tccttcttaa ggagcctaagt 240
aggggaaaga ggcaggggga gctcccagca ggaccaaaagg gagaccaagg ttgggacccc 300
agaacagagc aggaacccag agtctctgtc agtcacagga tgacgcaggg aggcaggctg 360
ttggtgatct tttctagggt ttccccattn actg                                     394

```

```

<210> 57
<211> 427
<212> DNA
<213> Homo sapiens

```

```

<400> 57
tttttttttt gttttagtagc ccactttact gccaatagct gacattgcc tgggttaggg 60
gagaataaat aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc 120
tttctgtggc acttaccocg ggaagggggg atgaggtggc tggagaagtg ttcattggaga 180
gtgtctctct cctgccccca aggccacgga atcttctatt ccttctttgt acccaaggag 240
caaatgtggag gcagggtctc ctttctaaag gagctaagta ggggaaagag gccagggggg 300
ctcccagcag gaccaaaagg agaccaaggt ttgtacccca gaacagagca ggaacccaga 360
gtcctgtgca gtcacaggat gacgcaggga ggacggctgt tgggtgatct ttctagggtt 420
tctccat                                     427

```

```

<210> 58
<211> 421
<212> DNA
<213> Homo sapiens

```

```

<400> 58
tttttagtgt ttgttagcgc actttactgc caatagctga cattgccctg ggttagggga 60
gaataaataa aatctgtggc atcagacagg tattaccgag gogaagagtg gactgggctt 120
tgttggggcc ttaccctggg aaggggggat gaggtggctg gagaagtgat catggagagt 180
gtctctctct gctccccaa ggcacggaaat ctctattcc ttcttggtag ccaaaaggga 240
aagtggaggg cagggtctct ttgctaagga gctaagtagg gaaaagaggg aggggggagct 300
cccagcagga ccaaaaggag accaagggtt ggaccccaga acagagcagg aaccagaggt 360
cctgtgcagt cacaggatga cgcaggaggg acggctgttg gtgatctttt ctagggtttc 420
t                                     421

```

```

<210> 59
<211> 419
<212> DNA
<213> Homo sapiens

```

```

<400> 59
tttttttagt gttttagtagc ccactttact gccaatagct gacattgcc tgggttaggg 60
gagaataaat aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc 120
tttctgtggc acttaccocg ggaagggggg atgaggtggc tggagaagtg ttcattggaga 180
gtgtctctct cctgccccca aggccacgga atcttctatt ccttctttgt acccaaggag 240
caaatgtggag gccagggtct ctttctaaag gagctaagta ggggaaagag gccagggggg 300
ctcccagcag gaccaaaagg agaccaaggt ttggacccca gaacagagca ggaacccaga 360
gtcctgtgca gtcacaggat gacgcaggga ggacggctgt tgggtgatct ttctagggtt 419

```

```

<210> 60
<211> 434
<212> DNA
<213> Homo sapiens

```

```

<400> 60

```



```

tgttttagtc gccactttac tgccaatagc tgacattgcc ctgggttagg ggagaataaa 60
taaaatctgt ggcacacagc aggtattacc gaggcgaaga gtggactggg ctttcgtggg 120
cacttacccct gggaaggggg tatgaggtgg ctggagaagt gtccatggag agtgtctctc 180
tctcgccccc aaggccacgg aaatctctat tctctctttg taccocaaag gccaaagtga 240
ggccagggttc tctttgctaa ggagctaaag agggggaaag aggcaggggg agctccacgc 300
aggaccaaag ggagaccacg gtttggaacc cagaacagag caggaaacca gagtctctgt 360
cagtcacagg attgcacgag ggaggaccgg ctgttggtga tcttttctaa ggttttctcc 420
attactgggc tctt                                     434

```

```

<210> 61
<211> 418
<212> DNA
<213> Homo sapiens

```

```

<400> 61
agcattagtg ttttagtcgc cactttactg ccaatagctg acattgccct gggttagggg 60
agaataaata aaatctgtgg catcagacag gtattaccga ggcgaagagt ggactgggct 120
ttcgtgggca cttaccctgg gaagggggta tgaggtggct ggagaagtgt tcatggagag 180
tgtctctctc ctgcccccaa ggccacggaa tctctctatt cttcttttga cccaaagggg 240
caaaagtggag gccagggtct ctttgctaag gagctaagta ggggaaagag gcagggggag 300
ctcccagcag gaccaaaagg agaccaaggt ttggacccca gaacagagca ggaaccacga 360
gtctctgtca gtcacaggat gacgcaggga ggacggctgt tggatgatct tcttaggg 418

```

```

<210> 62
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<400> 62
tagtgtttgt agcgccactt tactgccaat agctgacatt gccctggggt aggggagaat 60
aaataaaatc tgtgcatcgc gacaggatatt accgaggcga agagtggact gggctttcgt 120
gggcacttac cctgggaagg ggttatgagg tggctggaga agtgttcatt gagagtgtct 180
ctctcctgcc cccaaggcca cggaaattct tattctctct ttgtacccaa agggcgaagt 240
ggaggccagg gtctctttgc taaggagcta agtaggggaa agaggcaggg ggagctccca 300
gcaggaccaa agggagacca aggtttggac cccagaacag acagggaacc cagagtctct 360
tgacgtcaca ggtatgacga gggaggacgg ctgttggtga tct                                     403

```

```

<210> 63
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 63
gttttagtcg ccaactttact gccaatagct gacattgcc tgggttaggg gagaataaat 60
aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc tttcgtgggc 120
acttacacct ggaagggggg atgaggtggc tggagaagtg ttcattggaga gtgtctctct 180
cctgcctccc agggccacga atctcttatt cttcttttgt acccaagggg caaagtggag 240
ggcagggtct ctttgttaag gagctaagta ggggaaagag gcagggggag cttccacgac 300
gaccaaaagg agaccaaggt ttggacccca gaacagagca ggaaccacga gtctgtgtca 360
gtcacaggat gacgcaggag gacggctgtt ggtgatcttt t                                     401

```

```

<210> 64
<211> 432
<212> DNA
<213> Homo sapiens

```

```

<400> 64
actgccaata gctgacattg ccttgggtta ggggagaata aataaaatct gtggcatcag 60

```

```

acagggtatta ccgaggcgaa gagtggactg ggctttcgtg gccacttacc ctgggaaggg 120
ggnnatgagg tggctggaga agtgttcatg gagaggtgtc ctctcctgcc cccaaggcca 180
cggaatcttc tattctcttc ttgtacccaa agggcaaaagt ggaggccagg gtctctttgc 240
taaggagacta agtaggggaa agggccaggg ggagctccca gcaggaccaa agggagacca 300
aggtttggac ccaggaacca gaggcagaac ccagagtctt ttggcagtnc accagatgga 360
cgcagggagg gacggctgtt cggtgaactt ttctagggnt tccccatta accggtctct 420
cggatggcct ct

```

```

<210> 65
<211> 501
<212> DNA
<213> Homo sapiens

```

```

<400> 65
ttagtgtttg tagcgccact ttactgccaa tagctgacat tgccctgggt taggggagaa 60
taaaaaaaat ctgtggcatc agacagggtat taccaggagg aagagtggag tgggctttcg 120
tgggcacttta ccctgggaag ggggtatgag gtggctggag aagtgttcat ggagagtgtc 180
tctctctctc ccccaaggcc accgaatctt ctattacttc ttgtacccha aagggcaaa 240
tgggagccag ggtctctttg ctaaggagct aagtagggga aagaggcagg ggagctccc 300
agcaggacca aaggagagacc aagggtttga cccagaaaca gagcaggaa cagagatctc 360
gtgcaatcac aggaatcac agggaggagc gctgttgggt atcttttcta gggtttctcc 420
attactggct ctctggatgc cctcaatgag atcttttcta tagggaaagc cccattctc 480
cagcttggag aacaccagct g

```

```

<210> 66
<211> 792
<212> DNA
<213> Homo sapiens

```

```

<400> 66
cnggctgagg aattcggagc ngggcagtag tgtgaaggag cagtatccgg gcactcgagat 60
cgagtcgcgc ctngggggga cagggtgctt gagatagaga taaatngaca gctggnttgc 120
tccaatctgg agaattgggg ctltccctat gagaaagatc tcatggaggc catccgaaga 180
gccagtaagt gagaaacct agaaaagatc accaacagcc gtccctccctg cntcatctg 240
tgactncaca ggactctggg ttctgtctct gttctggggg ccaaaccttg gtctncttt 300
ggtnctgctt nggagctccc nctgnctntt tncctactt agntncttga gcaagaggga 360
cccttggcct ncactttanc ccttttgggg tacaaaaggga agggaaatga gaagatttcc 420
nttggentnn gaggggcnaa ggaagatgag ncaattttcc nattaacaa ctttttcaa 480
caaacntnaa tacccnnttt ccccgagggt aaggtncccc acgnaanagc caaagctnac 540
attttttngc ntgggaaat acchntntt nantccaaaa nttnntntt aatnttccc 600
canaacnaaa gggaaanttn aagnaatttg gnaannaaag ttngnnttc aaancacaa 660
ataaaaanaa anaaaaaann ttgagnggg gncccnganc cnaatttngc ncantnngn 720
ggnggntnaa aaancanatt tgcagnggnt tnaaaacagt ntgagctttn naaancntg 780
gtttccaana an

```

```

<210> 67
<211> 474
<212> DNA
<213> Homo sapiens

```

```

<400> 67
tttttttttt tggtttgtag gccactttac tgccaatagc tgacattgcc ctgggttagg 60
ggagaataaa taaaatctgt ggcatcagac aggtattacc gaggcgaaga gtggactggg 120
ctttctgtgg cacttaccct gggaaggggg tatgaggtgg ctggagaagt gtctcatggag 180
agtgctctct tcctgccccc aaggccacgg aatcttctat tcttctttg tacccaaagg 240
gcgaagtgga ggccagggtc ttctttgctaa ggagctaaat aggggaaaga ggcaggggga 300
gctcccagca ggaccaaaag gagaccaagg ttgggacccc agaacagagc aggaacccag 360
agtcctgtgc agtcacagga tgacgcaggg aggagcgggt ttggtgatct ttcttaggg 420
ttctccatta ctggtctctc ggtatggccc aatgagatct ttctcatagg gaag 474

```

<210> 68
<211> 483
<212> DNA
<213> Homo sapiens

<400> 68
agtgtttgta ggcgcaactt actgccaata gctgacattg cccctgggta ggggagaata 60
aataaaatct gtggcatcag acagggtatta ccgaggcgaa gagtggactg ggcctttcgtg 120
ggcacttaac ctggggaagg ggtatgaggt ggctggagaa gtgttcattg agagtgtctc 180
tctctctgcc ccaaggccac ggaatctctt attcctctct tgtaccocaa gggccaaagt 240
gaggccangt tctcttttgc taaggagcaa ataaggga aa gaggcagggg gagctccacg 300
caagaccaaa gggagaccaa ggtttggacc ccagaacaga gcaggaaacc agagtctctg 360
gcagtccacg gatgacgcag ggaggacggc tgttgggtgat cttttctagg gtttctccat 420
tactggctct tcggatggcc tcaatgagat ctttctcata gggaaagccc ccatttctca 480
gct 483

<210> 69
<211> 449
<212> DNA
<213> Homo sapiens

<400> 69
tttttagtgt tgtagcgcca ctttactgcc aatagctgac attgcccctg gttaggggag 60
aataaaataa atctgtggca tcagacaggt attaccgagg cgaagagtgg actgggcttt 120
cgctgggcact tacctgggga agggggatg aggtggctgg agaagtgttg atggagagtg 180
tctctctctc gccocaaagg ccacggaatc ttctatttct tttttgtacc caaaggcgaa 240
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ccagcaggac caaaggagga ccaaggtttg gacccagaaa cagagcagga acccagagtc 360
ctgtgcagtc acaggatgac gcagggagga cggtctgttg tgatcttttc tagggtttct 420
ccattactgg ctcttcggat ggctcact 449

<210> 70
<211> 594
<212> DNA
<213> Homo sapiens

<400> 70
tagtgtttgt agcgccactt tactgccaat agctgacatt gccctggggt aggggagaat 60
aaataaaatc tgtggcatca gacaggtatt accgaggcga agagtggact gggctttcgt 120
gggcaactac cctgggaagg ggtatgagg ttgctggaga agtgttcatt gagagtgtct 180
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ggaggccagg gtctctttgc taaggagcta agtaggggaa agaggcaggg ggagctccca 300
gcaggaccac agggaaacaa ggtttggacc ccagaacaga gcaggaccca gagtctctgt 360
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ctggctcttc cgatgcctca ctgagatctt tctcataggg aaagccccc tctctcagct 480
ttgaagcaga agctgtctatt tatctctatc tcaaggcacc ctgtgcccc gagcggaatt 540
catctcgagc ccgatactg ctctcttaca gactggcagt tcaagggaagt cgcc 594

<210> 71
<211> 389
<212> DNA
<213> Homo sapiens

<400> 71
tttttagtgt ttgtagcgcc actttactgc caatagctga cattgcccgt ggttagggga 60
gaataaataa aatctgtgac atcagacagg tattaccgag gcgaagagtg gactggcctt 120
tcgtgggcac tacccctggg aagggggatg gaggtggctg gagaagtgtt gctggagagt 180
gtctctcttc tgccccaaag gccacgggat cttctatcc ttctttgtac ccaaaggcca 240

aagtggaggc cagggtctct ttgctaagga gctaagtagg ggaagaggc agggggagct 300
ccagcaggga ccaaaggag accaaggtt ggacccaga acagagcagg aaccagagct 360
cctgtgcagt cacaggatga cgcaggagg 389

<210> 72
<211> 405
<212> DNA
<213> Homo sapiens

<400> 72
agtgtttgta ggcgcacttt actgccaata gctgacattg cctgtgggtta ggggagaata 60
aataaaatct gtggcatcag acagggtatta cggaggcgaa gagtggactg ggccttctgt 120
ggcacttacc ctgggaagggt ggtatgaggt ggctggagaa gtgttcatgg agagtgtctc 180
tctcctgcc ccaaggccac ggaatcttct attccttctt gtaccocaaa gggcaaatgt 240
gaggccagggt tctctttgct aaggagctaa gtaggggaaa gaggcagggt gagctccag 300
caggaccaa gggagaccaa ggtttggacc ccanaacaga gcagggaacc agagtctgt 360
ncagtccag gatnaccgag ggaggacggc tgttggtgat ctttt 405

<210> 73
<211> 396
<212> DNA
<213> Homo sapiens

<400> 73
tttttttttt gttttagcgc ccactttact gccaatagct gacattgccc tgggttaggg 60
gagataaaat aaaatctgtg gcacacagaa ggtattaccg aggcgaagag tggactgggc 120
tttcgtgggc acttaccctg ggaagggggt atgaggtggc tggagaagtgt ttcattggaga 180
gtgtctctct cctgccccca agccacaggga atcttctatt ccttctttgt acnccaaagg 240
gcaaatgtgga ggccagggtc tctttgtctaa ggagctaaat aggggaaaga ggcaggggga 300
gtctccagca ggacaaaagg gagaccaagg tttggacccc agaacagagc aggaaccag 360
agtctctgtc agtcacagga tgacgcaggg aggaag 396

<210> 74
<211> 392
<212> DNA
<213> Homo sapiens

<400> 74
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gaataaataa aatctgtggc atcagacagg tattaccgag gcgaagagtg gactgggctt 120
ctgtgggcac ttaccctggg aagggggtat gaggtggctg gagaagtgtt catggagagt 180
gtctctctcc tgcccccaag gccacggaaat ctctattccc tctttgtat ccacaggaga 240
aagtggaggc cagggtctct ttgctaagga gctaagtagg ggaagagggc agggggagct 300
cccagcaggga ccaaaggagg accaaggttt ggacccaga acagagcatg aaccagagct 360
cctgtgcagt cacaggatga cgcaggaggg ac 392

<210> 75
<211> 372
<212> DNA
<213> Homo sapiens

<400> 75
ctgccaaatg ctgacattgc cctggggttag gggagaataa ataaaatctg tggcatcaga 60
caggattacc cgaggcgaag agtggactgg gctttctgtg gcacttaacc tgggaagggt 120
gtatgaggtg gctggagaaag tgttctatga gactgtctct ctctgtcccc caaggccacg 180
gaatcttcta tctcttcttt gtacccaaa gcaaatgtga ggccagggtc tctttgtcta 240
ggagctaaat aggggaaaga ggcaggggga gctccagca ggacaaaagg gagaccaagg 300
tttgacccc agaaacagagc aggaaccag agtctgtgc agtcacagga tgacgcaggg 360

angaccggct tt

372

<210> 76
<211> 380
<212> DNA
<213> Homo sapiens

<400> 76						
ttttagtgtt	tgtagcgcca	ctttactgcc	aatagctgac	attgccctgg	gttaggggag	60
aataaataaa	atctgtggca	tcagacaggt	attaccgagg	cgaagagtgg	actgggcttt	120
cgtggggcact	tacocctggga	agggggatag	aggtggctgg	agaagtgttc	atgggagagt	180
tctctctcct	gcccccgaag	ccacgggaatc	ttctattcct	tcctttgtacc	caaagggcaa	240
agtgagggcc	aggggtctctt	tgctaaggag	ctaagtaggg	gaaagaggga	gggggagctc	300
ccagcaggac	caaagggaga	ccaaggtttg	gaccccgaa	cagagcagga	accagagatc	360
ctgtgcagtc	acaggatgac					380

<210> 77
<211> 374
<212> DNA
<213> Homo sapiens

<400> 77						
gtttgtagcg	coactttact	gccaatagct	gacattgcc	tgggttaggg	gagaataaat	60
aaaatctgtg	gcatacgaca	ggtattaccg	aggggaagag	tggactgggc	tttcgtgggc	120
actttaccctg	ggaaggttgt	atgaggtggc	tggagaagtg	ttcatggaga	gtgtctctct	180
cctgccccca	agggccaagga	atcttctatt	ctctctttgt	accocaaaggt	caaagtggag	240
gccagggctc	ctttgtctaag	gagctaagta	ggggaaaagag	gcaggggggag	ctcccagcag	300
gaccaaaagg	agaccaaagg	ttggacccca	gaacagagca	ggaacccaga	gtcctgtgca	360
gtccacaggat	gacg					374

<210> 78
<211> 386
<212> DNA
<213> Homo sapiens

<400> 78						
tttttttttt	tttttttttt	agtggtttgt	gcgcacactt	actgcccaata	gctgacattg	60
ccctggggtta	gggggagaata	aataaaaatct	gtggcatcag	acaggtatta	ccgaggcgaa	120
gagtgaggact	gggtttctgtg	ggcactttacc	ctgggaaggg	ggtatgaggt	ggctggagaa	180
gtgttcattgg	agaggtctct	tctcctgccc	ccaaggccac	ggaatcttct	attccttctt	240
gttaccocaaa	gggcaaaagt	gaggccaggg	tctctttgct	aaggagctaa	gtaggggaaa	300
gaggcagggg	gagctcccag	caggacccaa	gggagaccaa	ggttttggacc	ccagaaacaga	360
gcaggaaacc	agagtctctg	gcagtc				386

<210> 79
<211> 451
<212> DNA
<213> Homo sapiens

<400> 79						
tgttttagtc	gccactttac	tgccaatagc	tgacattgcc	ctggggttagg	ggagaataaa	60
tataaatctgt	ggcatcagac	aggtattacc	gaggcgaaga	gtggactggg	ctttcgtggg	120
caacttaccct	gggaaggggg	tatgaggtgg	ctggagaagt	gttcactggg	agtgctctct	180
tctgcccccc	aaggccaacg	aatcttctat	tcctttcttt	taccocaaag	caaagtggag	240
gcagggtctc	ctttgtctaag	gagctaagta	ggggaaaagag	gcagggggat	ctcccagcag	300
gacccaaagg	agaccaaggt	ttggacccca	gaacagagca	aggaacccag	agtcctgtgc	360
agtccacagg	ttgacgcagg	gaggaccggc	ttgtttgggt	atcctttcct	aggggtttct	420
ccattanttg	gctctttccg	attggcccca				451

<210> 80
<211> 311
<212> DNA
<213> Homo sapiens

<400> 80
ataaataaaa tctgtggcat cagacaggta ttaccgagggc gaagagtgga ctgggcttct 60
gtggggcactt accctgggaa gggggataga ggtggctgga gaagtgttca tggagagtgt 120
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<212> DNA
<213> Homo sapiens

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<211> 372
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<213> Homo sapiens

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<211> 401
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<212> DNA
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